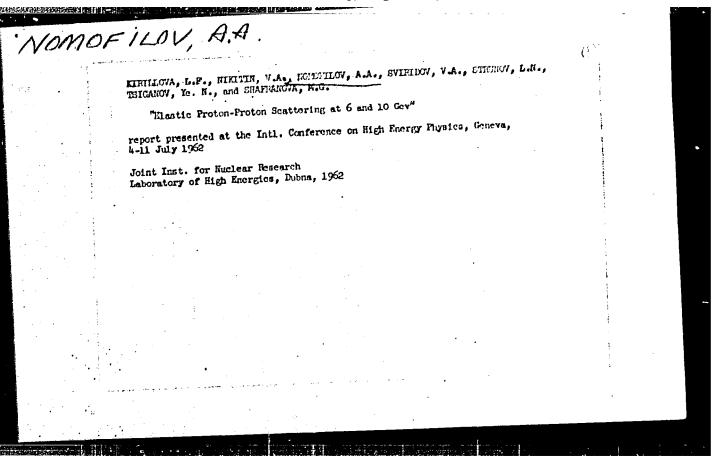
MINITIN, V. A., MONOFILOV, A. A., SVIRIDOV, V. A., SLEFFES, A. and STRUMOV, L. N.

"Differential Cross Section of the Electic N — Descatering of Mesons with the Mesonium 3,6 Gev/5 on Small Angles and Inelastic N — Descatering with a Small Memonium Treasion*

report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Institute For Suchear Research Laboratory of High Energies, Dabna, 1962



. KIRILLOVA, L.F.; NIKITIN, V.A.; NOMOFILOV, A.A.; SVIRIDOV, V.A.; STRUNOV, L.N.; SHAFRANOVA, M.G.

Elastic scattering of protons at small angles at energies of 6 and 10 Gev. Zhur. eksp. i teor. fiz. 45 no.4:1261-1266 0 163. (MIRA 16:11)

1. Obayedinennyy institut yadernykh issledovaniy.

NIKITIN, V.A.; NOMOFILOV, A.A.; SVIRIDOV, V.A.; STRUNOV, L.N.; SHAFRANOVA, M.G.

Use of a thin (CH2)_n film as an internal proton-synchrotron target in studying elastic p = p-scattering. Prib. 1 tekh. (MIRA 17:6) eksp. 8 no.6:18-22 N-D *63.

1. Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011373

Francisco Albert Edit Avenue Acad

NIKITIN, V.A., NOMOFILOV, A.A., SVIRIDOV, V.A., SLEPETS, L.A., SITNIK, I.M., STRUNOV, L.N.

Measurement of the real part of the amplitude of elastic II p-scattering at an energy of 3.5 Bev. IAd. fiz. 1 no.1:183 Ja '65. (MIRA 18:7)

1. Obwyedinennyy institut yadernykh issledovaniy.

GINDLIN, I., inzh.; SAKHAROV, V., inzh.; NOMOFILOV, S., inzh.

Prefabricated ice skating rink made of aluminum tube-sheet panels. Khol.tekh. 37 no.1:11-14 Ja-F '60. (MIRA 13:5) (Skating rinks)

THE CONTROL OF THE PROPERTY OF

Nomo FILOV, S. T.

20

PHASE I BOOK EXPLOITATION SOV/5685

- Fridlyander, I. N., Doctor of Technical Sciences, and B. I. Matveyev, Candidate of Technical Sciences, eds.
- Teploprochnyy material iz spechennoy alyuminiyevoy pudry [SAP]; sbornik statey (Heat-Resistant Material From Baked Aluminum Fouder [SAP); Collection of Articles) Moscow, Oborongiz, 1961. 122 p. Errata alip inserted. 3,550 copies printed.
- Reviewers: M. F. Bazhenov, Engineer, and M. Yu. Bal'shin, Candidate of Technical Sciences; Ed.: M. A. Bochvar, Engineer; Ed. of Publishing House: S. I. Vinogradskaya; Tech. Ed.: V. I. Oreshkina; Managing Ed.: A. S. Zaymovakaya, Engineer.
- PURPOSE: This collection of articles is intended for scientific workers and engineers in the institute and plant laboratories of the metallurgical and machine-building industry; it may also be useful to instructors and advanced students.
- COVERAGE: The 12 articles contain the results of research on the structure, properties, and manufacture of semifinished products Card 1/5

Heat-Resistant Material From (Cont.)

80V/5685

from sintered aluminum powder. The technology for the manufacture of aluminum powder and briquets is described as are facture of aluminum powder and briquets is described as are sintering processes, and pressing, rolling, drawing, and sheet-stamping methods. The dependence of the properties of semifinished products on the aluminum-oxide content of the nowder, on the degree of hot and cold deformation, and on the stresses of pressing is investigated. Also investigated are the mechanical and corrosive properties of semifinished products, the mechanism of hardening of sintered aluminum powder, the reasons for blister formation, and the possibility of recrystallization. Data on sintered aluminum alloys are included. No personalities are mentioned. References in the form of No personalities are montioned. References in the form of

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Gerchikova, N. S., N. I. Kolobnev, M. G. Stepanova, and I. W. Fridlyander. Effect of Aluminum-Oxide Content on the Structure 3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001137

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Heat-Resistant Material From (Cont.) SOV/5685				
and Properties of Pressed Articles From SAP (Sintered Aluminum Powder)	5			
Stepanova, M. G., G. P. Zenkov, Ye. M. Lekarenko, and L. A. Sarul'. Aluminum Powder for SAP The work was carried out with the participation of G. N. Pokrovskaya, Chief of TsZL; R. V. Nesterenko, Acting Chief of the Shop, and Engineers L. I. Kibitova, N. D. Chumak, and N. I. Kolobnev.	17			
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Matveyev, B. I., S. I. Homofilov, and V. A. Shelamov. Press- ing of Semifinished Products From SAP The work was carried out with the participation of Engi- neers A. V. Fedotove and I. R. Khanove, and Senior Tech- nician L. S. Perevyazkin.	36		÷	
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Matveyev, B. It. P. V. Kishnev, and I. 1 of Semifinished Products From Sintered Maryenko. B. A. V. A. T.	R. Khanova. Properties
Krivenko, R. A., Ye. A. Kuznetsova, and Sintered Aluminum Alloys	I. N. Fridlyander.
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8/2981/63/000/002/0078/0086

ACCESSION NR: AT4012716

AUTHOR: Kishnev, P. V.; Matveyev, B. I.; Marty*nova, N. A.; Nomofilov, S. I.; Bazurina, Ye. Ya.; Shelamov, V. A.

TITLE: Properties and structure of wire made of SAP

SOURCE: Alyuminiyevykye splavyk. Sbornik statey, no. 2. Spechennykye splavyk.

Moscow, 1963, 78-86

TOPIC TAGS: powder metallurgy, sintered powder, aluminum powder, sintered aluminum powder, SAP, SAP wire

ABSTRACT: Fastenings designed for use with heat-resistant materials such as SAP should have the same thermal properties. The authors therefore developed a technique for manufacturing SAP wire which can be used for rivets, for example, and studied its structure and mechanical properties. Grade PP-4 sluminum powder (chemical content: 4-5% Al₂O₃, 0.06% F_a, 0.26% fats, 0.016% moisture, the rest aluminum) was used for manufacturing a test series of calibrated wire, gauge 3, 4 and 5 mm. This material has been found suitable for rivets. After drawing, the gauged wire of 3, 4 and 5 mm had a tensile strength of 25-30 kg, mm2 at 20C and a

NOMOFILOV, YE. V., IBRAGIMOV, M. KH. and SUBBOTIN, V. I.

"Measurement of turbulent temperature pulsations in a liquid flow."

Report presented at the 1st All-Union Conference on Heat- and Mass- Exchange. Minsk, BSSR, 5-9 June 1961

SUBBOTIN, V.I.; IBRAGIMOV, M.Kh.; IVANOVSKIY, M.M.; ARNOL'DOV, M.N.; HOMOFILOV, Ye.V.; ATENKOV, S., tekhn. red.

[Heat transfer and turbulent heat transport in a flow of luquid metals; Conference on Heat and Mass Transfer, Minsk, January 23-27, 1961] Teplootdacha i turbulentnyi perence tepla v potoke zhidkikh metallov; soveshchanie po teplo-i massochmenu, g. Minsk, zhidkikh metallov; soveshchanie po teplo-i massochmenu, zhidkikh metallov; soveshchanie zhidkikh metallov; zhidkikh met

29918 S/594/61/000/000/006/011 D234/D303

26.5000 (also 149P)

AUTHORS:

Subbotin, V.I., Ibragimov, M.Kh. and Momofilov, Ye.V.

(Moscow)

TITLE:

Measuring turbulent pulsations of temperature in a

stream of liquid

SOURCE:

Soveshchaniye po teplo- i massoobmenu. Minsk, 1961. Tezisy dokladov i soobshcheniy (Dopolneniye), 38-39

TEXT: Turbulent pulsations of temperature in the flow of liquid metal and water in a pipe were measured. The amplitude of temperature pulsations obey Gauss Law of Normal Distribution. A variation of the amplitude of the pulsations with the radius was variation of the amplitude of the pulsations with the radius was better that the magnitude of the pulsations is proportional to the length of the path of mixing and to the gradient of the averaged temperature field. At all points of the turbulent stream the intensity of the pulsation decreases with the increase of the num-

Card 1/2

29918 S/594/61/000/000/006/011 D234/D303

Measuring turbulent pulsations...

ber Re. Mean frequency of the pulsations varies little with the cross section of the stream. Temperature pulsations were found in the layer at the wall of the pipe and in the wall. It is shown that the thickness of the layer at the wall varies continually in an accidental manner, but the layer does not disappear completely. If there is stationary cooling the process of heat transfer through the layer at the wall and the surface of heat exchange is quasistationary. Increase of mean frequency of the pulsations in the wall and in the stream was found from zero values (Re < 2000) to wall and in the stream was found from zero values that a turapproximately 1 cycle (for Re ~ 2300) which indicates that a turapproximately 1 cycle (for Re ~ 2500) which indicates that a complete translation

Card 2/2

29919 S/594/61/000/000/008/011 D234/D303

26.5000 (also 1498)

AUTHORS:

Subbotin, V.I., Ibragimov, H.Kh., Ivanovskiy, H.K., arnol'dov, K., and Romofilov, Ye.V. (Moscow)

TITLE:

licat loss and turbulent heat transfer in streams of liquid metals

SOURCE:

Soveshchaniye po teplo- i massoobmenu. Minsk, 1961. Tezisy dokladov i soobshcheniy (Dopolmeniye), 39-41

Goefficients of heat loss and turbulent heat transfer were determined on the basis of measuring temperature fields in streams of various alkaline and heavy liquid metals. The liquid metals investigated have a sufficiently wide range of measurement with rater's note: "izmereniye" - probably a misprint of "izmeneniye" - change, variation of the criterium Pr = 0.005; 0.05. Property of the criterium pr = 0.005. Property of temperature fields were made on vater. Turbulent pulsations of temperatures in the stream made on water. Turbulent pulsations of temperatures in the stream were found, whose magnitude was up to 20% of the value of tempera-

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3/594/61/000/000/003/011 D234/D303

Heat loss and turbulent heat ...

ture stress. It was found that the amplitude and frequency of the pulsations depend on the magnitude of heat flow, physical properties, regime of flow of the liquid and dimensionless distance from the wall. Temperature pulsations of the liquid near the wall and of the wall itself indicate that the process of heat transfer through the layer of liquid at the wall and the surface of heat exchange is not rigorously stationary. The values of hu obtained by processing the measurement data of temperature fields in streams of various liquid metals are in good agreement with one another and with the results of previous investigations. Coincidence of the experimental data with Lyon's formula

 $lu = 7 + 0.025 Pe^{0.8}$.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

is observed in a sufficiently wide range of the number $Pe = 100 \div 12,000$. However, this is not an indication of the unconditional correctness of Lyon's assumption that the ratio of the coefficients of turbulent heat transfer and quantity of motion $E = E_0/E_0$ does not vary across the section of the pipe and is equal to I for all

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Heat loss and turbulent heat ...

values of the number Pe. Data processing on temperature fields obtained showed that the above ratio varies with the radius of the pipe and depends on the criterium Re. The coefficient of turbulent heat transfer was determined from

$$\varepsilon_{\alpha} = \frac{q/q_{ij}}{\frac{\partial t}{\partial \xi}} \frac{r_0 q_{ij}}{c_{\rho} r} - \alpha \tag{2}$$

The ratio of local heat flow and the flow at the wall was found from a relation obtained from the leat balance of an elementary volume of the liquid. In several experiments the coefficient of heat loss was determined by the same methods, in which the thermal contact resistance on the surface of heat exchange was taken into account. The experiments allowed the authors to make a sufficiently elear distinction between two processes which determine the heat transfer to liquid metals. The first process, connected with molecular and turbulent heat transfer, can be described by semi-empirical theories of heat exchange. Such heat transfer is described in

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	the first approximation by the Hartine process, caused by thermal contact resheat exchange, defice theoretical estiter's note: Complete translation	lli-Lyon theory. The second istance on the surface of mation at present. [Abstrac-	
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s/096/61/000/007/004/006 E194/E155

21.4240

Ibragimov, M.Kh., Candidate of Technical Sciences,

Nomofilov, Ye.V., Engineer, and **AUTHORS:**

Subbotin, V.I., Doctor of Technical Sciences.

TITLE:

Heat transfer and hydraulic resistance during helical

motion of a fluid in a tube

PERIODICAL: Teploenergetika, 1961, No. 7, pp. 57-60

This article describes the influence of the additional turbulence caused by helical motion of fluid in a tube. The tests were carried out with water (Pr > 1) and liquid metal (Pr @ 1) which were of different thermal conductivity. Measurements were made both of heat transfer and hydraulic resistance. The resistance tests were made in a tube of steel 1X18H9T (1Kh18N9T) of 12 mm internal diameter, 1020 mm long, with an internal finish Into this were inserted twisted strips of metal to cause the helical flow. Tests were made with helix pitches of 50.5, 109.5 and 238 mm and with a flat central strip. Resistancetest results are plotted in Fig. 1, in which the black points (1) correspond to a pitch of 50.5 mm and the circles (2) to the other

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Heat transfer and hydraulic resistance.E194/E155

two pitches and the straight strip. It will be seen that the resistance rose sharply as the helix pitch dropped below 109.5 mm. The heat-transfer tests were made in a tube of steel lKh18N9T with an internal diameter of 12 mm and a test portion 680 mm long. The latter was enclosed in a ceramic tube wound with an electric strip latter was enclosed in a ceramic tube wound with an electric strip heater. The internal twisted strips tested had pitches of 50.5 and 109.5 mm, and a flat strip was also used. Heat-transfer test and 109.5 mm, and a flat strip was also used. Heat-transfer test results with water are plotted in Fig.4, where the experimental results with water are plotted in 50.5 mm, points (2) to 109.5 mm, points (3) to a flat strip and points (4) to the tube without any points (5) to a flat strip and points (4) to the tube without strip. The influence of the twisted spiral on heat transfer with water may be allowed for by introducing a correction factor Kr into Mikheyev's formula

Nu = 0.021 Re^{0.8} pr^{0.43}
$$\left(\frac{Pr_{ct}}{Pr_{\kappa}}\right)^{0.25}$$
 Kr (4)

The correction factor Kr is given by the following expression:

$$K_{\Gamma} = 1 + A \left(\frac{d_{BH}}{s}\right)^{n} \frac{1}{Re^{m}}$$
 (5)

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Heat transfer and hydraulic resistance... E194/E155

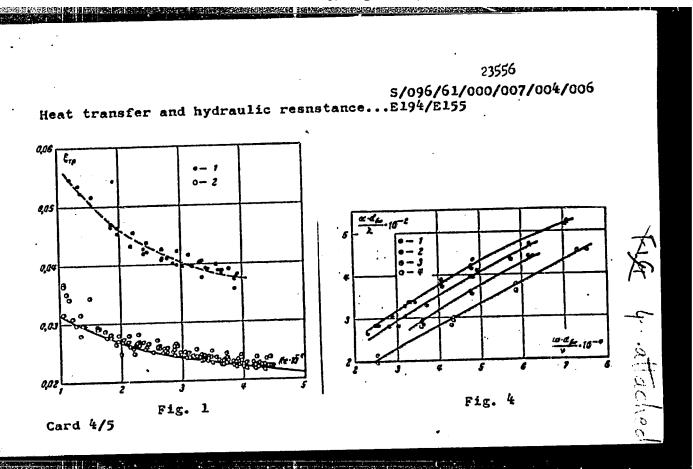
where: d_{BH} is the internal diameter; s is the pitch; and for values

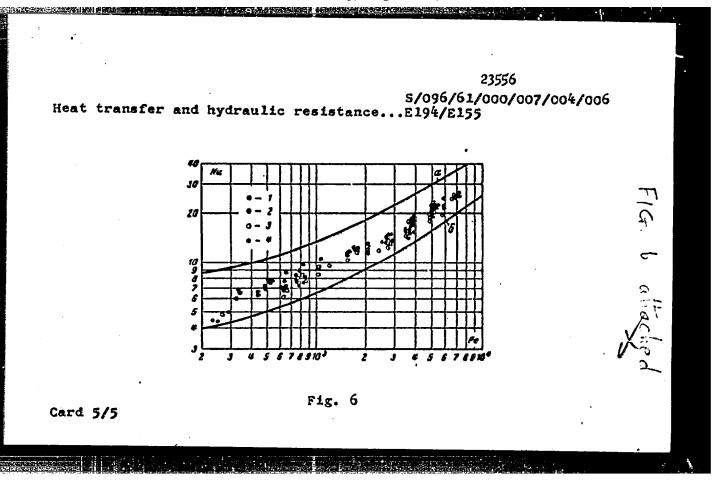
and the second s

 $0 \leqslant \frac{d_{BH}}{s} \leqslant 0.25$ and $10^4 \leqslant Re \leqslant 4 \times 10^4$.

 $A = 1.15 \times 10^5$; $n = 1\varphi$ m = 1.2

For tubes alone and with untwisted strips, $K_T = 1$. Formula (4) gives satisfactory representation of the experimental results for water. The results for liquid metal worked out in terms of the water. The results for liquid metal worked out in terms of the Nu and Pe criteria are plotted in Fig. 6. The two curves correspond to the upper and lower ranges of heat-transfer correspond to a pitch of 1 liquid metals. In Fig. 6, points (1) coefficients published for liquid metals. In Fig. 6, points (1) correspond to a pitch of 50.5 mm, points (2) to a pitch of 109.5 mm, correspond to a pitch of 50.5 mm, points (4) to a tube without points (3) to a straight strip, and points (4) to a tube without strip. It will be seen that in the case of liquid metal which is a good conductor of heat the increased turbulence due to helical a good conductor of heat the increased turbulence due to helical flow has no appreciable influence on the heat transfer. There are 6 figures, 1 table and 4 references: 3 Soviet and 1 English. The English language reference reads as follows: Ref. 3: R.N. Lyon. Chem. Eng. Progr. Vol. 47, No. 2, 1951.

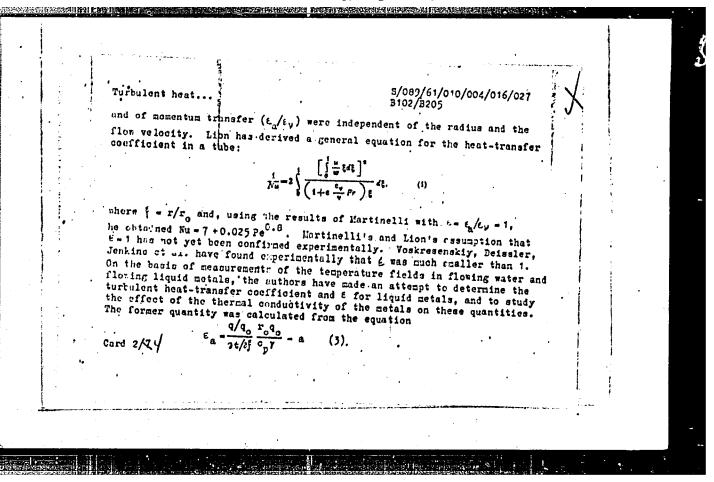


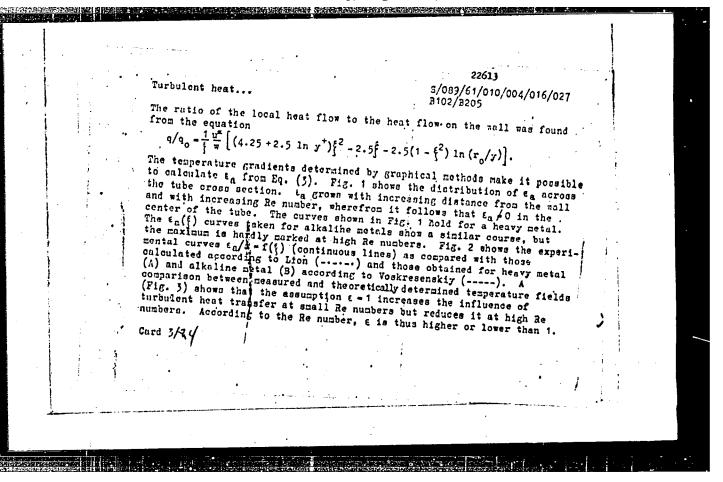


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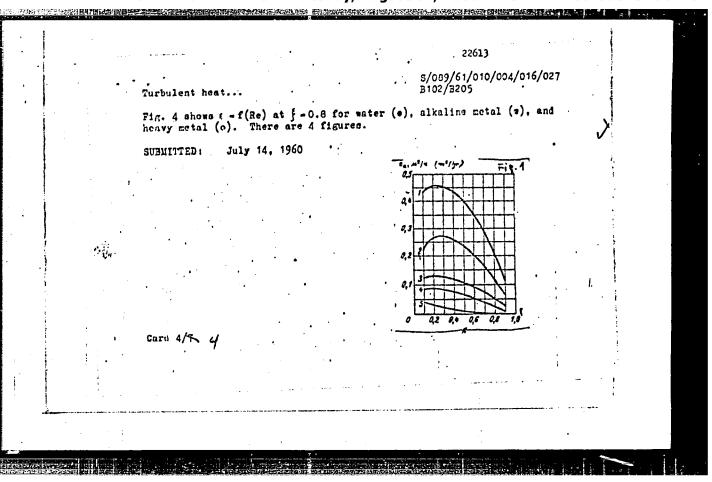
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:		AUTI'ORS:	Subbotin, V. I., I Arnol'dov, E. N.,	bragimov, M. X Nomofilov, Ye.	h., Ivanovskiy, V.	K. N.,		,
·	;	TITIE:	Turbulent heat tra	nsfer in a flo	w of liquid met	als	ĺ	
		PERIODICAL:	Atomnaya energiya,	v. 10, no. 4,	1961, 384-386		!	
· · · · · · · · · · · · · · · · · · ·	•	determination shown by the which makes makes it oos the temperation dustivity thin, laming core. Martianalogy to lytty in the	nodern theory of turb on of a turbulent has present study, the use of the analogy of seible to perform suc- ture fields in liquid y of liquid metals, to ted layer like in or inelli was the first liquid metals, taking turbulent core of the	t transfer in semi-empirical of heat trunsfe the atudies. The metals. On a the temperature dinary liquids to apply the t into account se flow. Calow	a flow of liqui- theory of heat r and momentum is can be prove- count of the h drop is not li but extends to theory of hydrod the molecular h lations were ba	d matter. As transfer transfer, d by measuring igh thermal mited to a the turbulen ynemicel eat conducti- sed on the		
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.



26368 8/089/61/011/002/004/015 B102/B201

21.5240

AUTHORS:

Subbotin, V. I., Ibragimov, M. Kh., Ivanovskiy, M. N.,

Arnol'dov, M. N., Nomofilov, Ye. V.

TITLE: Heat transfer with a turbulent flow of liquid metals in tubes

PERIODICAL: Atomnaya energiya, v. 11, no. 2, 1961, 133-139

TEXT: This is a report on a study of heat transfer occurring with a turbulent flow of liquid alkali and heavy metals in tubes. In the range of turbulent flow of liquid alkali and heavy metals in tubes. In the range of Pe = 10^2-10^4 , experimental data on heat transfer to liquid metals differ considerably; they may, on the whole, be grouped into two classes which are characterized by Nu = $7 + 0.025 \text{ Pe}^{0.5}$ (1) and Nu = $3.3 + 0.014 \text{ Pe}^{0.8}$ (2). The authors determined the heat-transfer coefficients by two methods: by measuring the temperature field in the flow of liquid metal, and by measuring the wall temperature and the mean temperature of the liquid metal. Fig. 1 shows the experimental setup traversed by the metal vertically (from bottom to top). The characteristics of the experimental setup are as follows:

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26368 \$/089/61/011/002/004/015 B102/B201

Heat transfer with a turbulent ...

	Part 1	Part 2	
tube material	steel 1X 18H9T (1Kh18N9T)	ateel 1¥1849T (1Kh18N9T)	
outer tube diameter inner tube diameter	42 mm 31.1 mm	54 mm 29.3 mm	
distance between tube inlet and thermocouple length of part with heat tr	1166 mm ransfer 1194 mm	985 mm 980 mm	
distance between beginning heated part and thermocouple	976 mm	945 mm	

All thermocouples (chromel-alumel couples) that served to measure the temperature of the liquid metal at the inlet and cutlet of the test tubes, were calibrated on a platinum - platinum rhodium thermocouple. The electric power was measured by astatic wattmeters of accuracy index 0.2 and 0.5. The flow rate of the metal was measured by magnetic and throttle flow meters. The alkali metals were continuously purified from cxides (oxygen content 0.02-0.005% by weight), not so the heavy metals (oxygen content Card 2/6

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Heat transfer with a turbulent ...

~10 % by weight). The temperature in the flow was measured with mobile thermocouples on 9-12 fixed points. Special small-size thermocouples served to measure the temperature fields; the results of these measurements were in good agreement with those calculated by Lyon's theory. The wall were in good agreement with those calculated by Lyon's theory. The wall temperature was determined by extrapolation of the temperature profile for temperature was determined by extrapolation of the temperature profile for the wall. The mean temperature of the flowing liquid metal was calculated from the formula

y was taken as the velocity-distribution law; (y = 0.25-0.4 mm). The Nusselt numbers resulting from the measurement of the temperature fields are in good agreement both with one another and with the results of other are in good agreement both with one another and with the results of other

are in good agreement both with one another and with the leady are in good agreement both with Lyon's formula (1) in the range authors. They are consistent with Lyon's formula (1) in the range authors. They are consistent with Lyon's formula (1) in the range authors. They are consistent with the leady is a second by Lyon, $\epsilon_a/\epsilon_v = 1$, $\epsilon_a/\epsilon_v = 1$,

constant over the tube cross section, and independent of Pe, but radically constant over the tube cross section, and independent of Pe, but radically constant over the tube cross section, and independent of Pe, but radically constant over then unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for large variable, and smaller than unity for small Pe, larger than unity for larger than unity for small Pe, larger than unity for large

26368 \$/089/61/011/002/004/015 B102/B201 .

Heat transfer with a turbulent

agreement for alkali metals, which is indicative of the fact that there is no thermal contact resistance in them under the given conditions (purification from oxides!). No agreement was found in the case of heavy metals, i.e., there is a thermal contact resistance at the interface between tube wall and liquid metal. As was shown by further studies, this contact resistance drops exponentially with a rise of Re. Yu. N. Pokrovskiy, Engineer, and A. P. Aleksandrov, laboratory assistant, helped to prepare the experimental setup and the small-size thermocouples. There are 6 figures, 1 table, and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. The three most important references to English-language publications read as follows: R. Lyon, Chem. Engng. Progr. 47, 2, 75 (1951); H. Brown et al. Trans. ASME, 79, No. 2, 279 (1957); R. Martinelli. Trans. ASME, 69, No. 8, 947 (1947).

SUBMITTED: August 25, 1960

Card 4/6

S/096/62/000/003/006/008 E195/E484

36.52.00

AUTHORS: Subbotin, V.I., Doctor of Technical Sciences,

Ibragimov, M.Kh., Candidate of Technical Sciences,

Nomofilov, Ye.V., Engineer

TITLE:

Measurement of turbulent temperature pulsations in a

fluid stream

PERIODICAL: Teploenergetika, no.3, 1962, 64-67

TEXT: Experimental study of turbulent temperature pulsations provides a better understanding of the internal structure of the stream and the mechanism of heat transfer under turbulent flow conditions. The test fluids were water and liquid metal; the apparatus is described. The authors established that with a variation in the Reynolds number there was a change in the temperature profile and the amplitude of pulsations and that the characteristic of temperature pulsations, in the region of maximum amplitudes, was the same for both fluids tested, although their thermal conductivities differed by a factor of 20 or 30. There was also a noticeable difference between the Card 1/3

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Measurement of turbulent ...

distributions of pulsations along the pipe diameter for both liquid metal and water. In liquid metals, which have a fairly smooth change in temperature gradient over the pipe cross-section, maximum pulsations occurred halfway between the wall and pipe centre; whilst in water, which has a greater change in temperature. gradient in the boundary region, maximum pulsations were observed in the immediate proximity of the pipe wall. When the Reynolds number was increased, the region of maximum pulsations was then displaced towards the wall, because the temperature profile in the fluid stream changed due to an increase in turbulent thermal conductivity. With a rise in Reynolds number, the shape of the temperature profile for liquid metal approached that for water. The authors introduce a new concept which they call "intensity of temperature pulsations" and which is expressed by the ratio of the rms amplitude to the temperature head. This expression changes over the cross-section of the pipe in the same manner as the rms value of the amplitude (Fig.2). With the increase in Reynolds number from 2 x 10^4 to 2 x 10^5 the intensity of temperature pulsations falls at all points in turbulent Card 2/4

Measurement of turbulent ...

S/096/62/000/003/006/008 E195/E484

flow (Fig.3). Thus the maximum value of intensity of temperature pulsations must be in the Re region of 2300 to 20000, since pulsations do not occur in laminar flow. In addition to the temperature pulsations in the turbulent core of the stream, there are also pulsations in the immediate proximity of the wall, in the laminar layer and in the pipe wall itself. The variation in mean frequency of temperature pulsations, in fluid stream and pipe wall, with a change in Re number, is also given. There are 8 figures and 5 references: 4 Soviet-bloc and 1 Russian translation from non-Soviet-bloc publication.

Card 3/4

SUBBOTIN, V.I.; IBRAGIMOV, M.Kh.; NOMOFILOV, Ye.V.

Heat transfer in the thermal stabilization region during turbulent flow of liquid metals in a tube. Atom. energ. 13 no.2:155-161 (MIRA 15:8) Ag *62. (Hydrodynamics) (Heat—Transmission)

Pr-1/Pu-1/Ps-L WW/JD ACCESSION NR: AP3000684

8/0096/63/000/006/0070/0074

AUTHOR: Subbotin, V. I. (Doctor of technical sciences); Ibregimov, M. Kh. (Candidate of technical sciences); Nomofilov, Ye. V. (Engineer)

27

TITLE: Measurement of temperature fields in turbulent flow of mercury in a pipe

SOURCE: Teploenergetika, no. 6, 1963, 70-74

TOPIC TAGS: turbulent heat transfer coefficient, radial temperature profile

ABSTRACT: Radial temperature profiles in mercury flowing upward in a vertical tube of 1Kh18N9T steel (outer diameter, 34 mm; inner diameter, 29.3 mm; length, 1300 mm) were determined by a moving temperature probe equipped with two alumel-chromel thermocouples. The tube was heated by a nichrome strip and the probe was driven by a worm gear mechanism with an electric motor. The experimental parameters were as follows: Re, 19,300—410,000; average mercury temperature, 10.1—41.1C; temperature difference between the mercury and the tube wall, 3.2—6.33C; and flow velocities, 0.08—1.72 m/sec. Measurements were made at 12 points located 0.25—14 mm from the tube wall. The temperatures were recorded for 30—50 sec by an EPP-09 high-speed automatic potentiometer, and the average readings were plotted on a dimensionless temperature versus distance graph.

Card 1/2

L 12924-63 ACCESUION NR: AP3000684

The wall temperature was obtained by extrapolation of the profiles. The turbulent heat transfer coefficient (ε_a) was calculated from the local heat fluxes, the heat flux through the wall, and the temperature gradients obtained from the profiles by graphical differentiation. The value of ε_a increased with increasing Re and with increasing distance from the wall, attaining a maximum at $r/r_0 = 0.2-0.3$. In the center of the tube (r/r_0) is less than 0.2, accurate values of ε_a could not be determined because of the considerable inaccuracy in the temperature gradients. The thermal mixing length was also determined and plotted against the r/r_0 . To gain further insight into the heat transfer mechanism, it is suggested that experiments be carried out in which ε_a is determined with sufficient accuracy in the center and the wall zone. Orig. art. has: 5 figures, 3 tables, and 6 formulas.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 21Jun63

ENCL: 00

SUB CODE: NS

NO REF SOT: 003

OTHER: 004

Card 2/2

NOMOFILOV, 4E.V.

AID Nr. 978-4

RELATIONSHIP BETWEEN TURBULENT HEAT-TRANSFER COEFFICIENTS AND MOMENTUM (USSR)

Subbotin, V. I., M. Kh. Ibragimov, and Ye. V. Nomofilov. Atomnaya energiya, v. 14, no. 4, Apr 1963, 414-416. S/089/63/014/004/016/019

In a study of heat transfer in turbulent flow of liquid metal, the heat-transfer and momentum-transfer coefficients have been calculated from experimental temperature fields obtained with liquid metal flowing in a pipe at Pr = 0.025 and Re = 20,000 to 450,000. The calculations showthat) the ratio between the coefficients of turbulent heat transfer and momentum depends on the Reynolds number, and 2) the turbulent transfer of momentum and the coefficient of dissimilarity & between turbulent heat transfer and momentum depend on the flow velocity distribution law. However, the velocity distribution has very little effect on the variation of & along the pipe radius. It is stated that the turbulent heat-transfer theory can be developed only on the basis of direct experimental study of actual parameters, including velocity pulsations, temperature, and the statistical correlations between the two.

Card 1/1

ACCESSION NR: AP4024192

5/0294/64/000/001/0071/0077

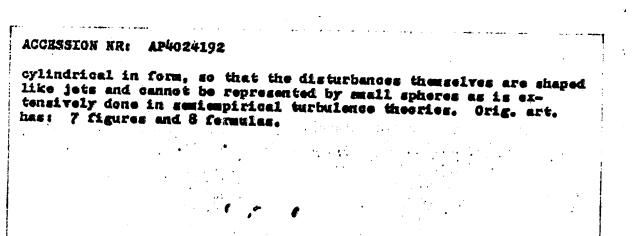
AUTHOR: Subbotin, V. I.; Ibragimov, M. Kh.; Yeacfilev, Ye. V.

TITLE: Statistical investigation of turbulent temperature pulsations in a liquid stream

SOURCE: Teplefizike vy*sokikh temperatur, no. 1, 1964, 71-77
TOPIC TAGS: temperature pulsation in stream, turbulent temperature
pulsation, turbulent water stream, turbulent liquid metal stream,
pulsation, turbulent water stream, turbulent liquid metal stream,
autocorrelation function, correlation function, normalized autocorrelation function, jet shaped turbulence, semiempirical turbulence
theory, normalized correlation function

ABSTRACT: Results are reported of measurements of temperature pulsations in turbulent streams of water and liquid metal, measurements of the normalized autocorrelation and mutual correlation functions, and measurement of the turbulence scales. A stainless steel tube with specially treated internal surface was used for the flow, and a motor driven thermocouple probe was used to plot the temperature distribution. Various measurement steps are detailed. It is concluded that the turbulent-disturbance region is

Card [1/3 2]



and the state of t

ASSOCIATION: none

03Sep63 SUBMITTED:

SUB CODE:

NO RRF SOVE

ENCL

OTHER: 004

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0011373

EWT(1)/EWP(m)/EWA(d)/EWA(1) UR/0294/65/003/005/0708/0716 ACCESSION NR: AP5025985 532, 542, 4:546, 49:536, 5, 001, 5

AUTHOR: Bobkov, V. P. (Moscow); Gribanov, Yu. I. (Moscow); Ibragimov, (Moscow); Nomafilov, Xe. V. (Moscow); Subbotin, V. I. (Moscow)

TITLE: Measurement of temperature pulsation intensity in the turbulent flow of

mercury in a tube

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 708-716

TOPIC TAGS: mercury, turbulent flow, probseconts, temperature stabilization, flow meter/Type 46Kl flow meter

ABSTRACT: The temperature pulsations were measured with two thermocouples, located in a single probe. Location of the thermocouples in the experimental section was accurate to ±0.1 mm. The experimental tube had a diameter of 52.2 mm, and was placed vertically. The length of the hydrodynamic and thermal stabilization zone was 30 tube diameters. In some experiments, a grid with an effective section equal to 30% of the cross section of the tube was placed at the inlet of the tube. This grid was a steel plate 2 mm thick with 2.5 mm diameter openings in a square pattern with a spacing of 4 mm. The mercury was circulated in the loop by a Type TsN-2 centrifugal pump. The heat flux was created by an electric heater, and the temperature of the mercury was measured with Chrom-

L 21989-66

ACCESSION NR: AP5025985

cl-Alumel thermocouples. The statistical characteristics of the flow were measured and automatically recorded with a Type 46Kl correlation meter. The amplifiers had a transmission band from 0.18 to 300 cycles at a level of 0.9. A back diagram of the measuring scheme is given. The temperature pulsation intensity was measured over a Reynolds number range from 5 x 10 to 125x10³ and a heat flux at the well from 10⁴ to 2x10⁴ kcal/in²-hr, at different inlet conditions. Results are given in tabular form. Analysis of experimental data slows that with a rise in the Reynolds number, the observed nonhomogeneity of the pulsations along the radius of the tube gradually disappears and the maximum intensity degenerates. Comparison of the experimental data for mercury and water indicate that with a rise in the Prandtl number at constant Reynolds number, the maximum intensity of turbulent temperature pulsations becomes more marked and approaches the tube wall. Orig. art. has: 6 figures and 1 table

ASSOCIATION: None

SUBMITTED: 31Jul64

NR REF SOV: 007

ENCL: 00

SUB CODE: 20

OTHER: 005

Card 2/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137

स वज्ञातात्र मान ACC NRI AP6021215

SOURCE CODE: UR/0294/66/004/003/0380/0388

AUTHOR: Bobkov, V. P. (Moscow); Ibragimov, M. Kh. (Moscow); Nomofilov, Ye. V. (Moscow); Subbotin, V. I. (Moscow)

ORG: none

B

TITLE: Investigation of spatial correlation coefficients and transverse temperature excitation scales in the turbulent flow of mercury in a round tube

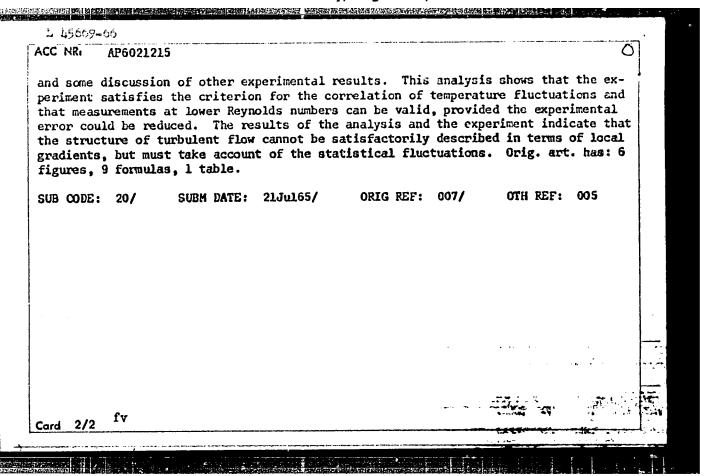
SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 3, 1966, 380-388

TOPIC TAGS: turbulent flow, Reynolds number, thermocouple, liquid metal, mercury

ABSTRACT: Temperature fluctuations in a turbulent flow of mercury were investigated in the Reynolds number range of 10,000 to 125,000. A pair of thermocouples were used at various positions in the stream and the spatial correlation coefficient was measured. The results are tabulated and graphed. The correlation coefficients were found to approach zero in the center of the stream and their change with the Reynolds number was noted to be greatest at the center. This is taken to indicate the strong dependence of the walls on the turbulence of the flow. The results indicate that transverse variations in temperature fluctuations are similar to those of velocity fluctuations and their scale is comparable to the stream transverse dimension. The analysis of the results is accompanied by an extensive review of turbulence theory

UDC: 532.5.071.4

Card 1/2



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

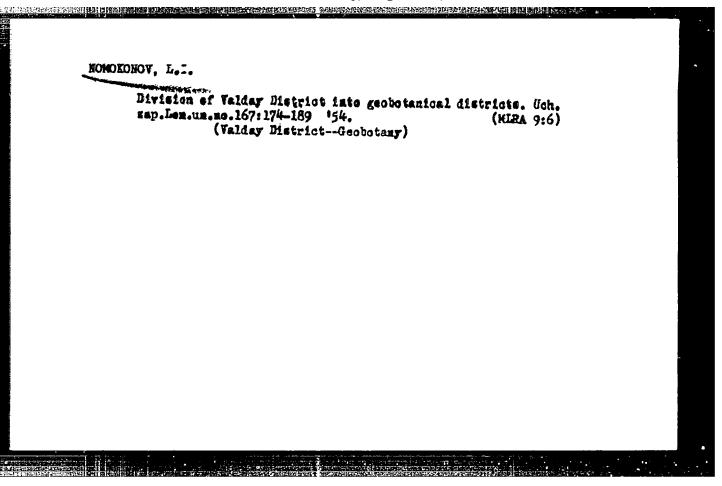
1. NOMOKONOV, L. I.

2. USSR (600)

4. Meadows - Valday District

7. Meadow vegetation of Valday District. Uch. zap. Len. un., No. 143, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.



NEWOYCHOV, I FORITY IVANOVICH

NCMOMONOV, Leonity Ivanovich, (East-Siberian Affiliate, Acad Sci USSR), Academic degree of Doctor of Diological Sciences, based on his defense, 18 May 1955, in the Council of the Botanical Inst imeni Komarov, Acad Sci USSR, of his dissertation entitles: "Inundated banks of the Yenisey River."

For the Academic Degree of Doctor of Sciences.

Byulleten' Ministerstva Vyashego Obrazovaniya SSSR, List No.8, 14 April 1955 Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS 512

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

OKONOV, L.I.	
HOMOKOROV, L.I.	
Classifying bottom and mendows of Siberia no.3:107-116 '57.	. Isv.vost.fil. AN SSSR (MLRA 10:9)
l. Vostochno-Sibirakia filial Akademii na (SiberiaPastures and	iuic SSSR. 1 mendows)

HONOKOKOV L. L.

Brief survey of Lena-River floodlands. Isv. vost. fil. AN SSSR no.11:
128-136 *57.

1. Vostochno-Sibriskiy filial Akademii nauk SSSR.
(Lena Valley--Pastures and meadows)

HOMOKOHOV, Leontiy Ivanovich; SHENNIKOV, A.P., otv.red.; KUL'TIASOV,
I.M., red.izd-ve; POLYAKOVA, T.V., tekim.red.

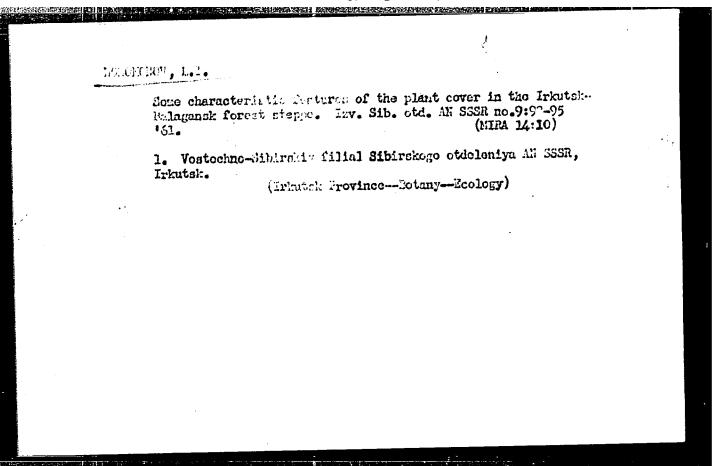
[Flood land meadows of the Tenisey] Poimannye luga Eniseia.

Moskva, Izd-vo Akad.nauk SSSR, 1959. 455 p. (MIRA 13:2)

(Tenizey Valley--Pastures and meadows)

, HOMOKONOV, L. I.

Soils of the flood lands of the Yenisey River. Trudy Vost.-Sib. (MERA 13:8) fil.AF SSSR no.17:72-102 159. (Yenisey Valley--Soils)



NOMOKONOV, Leontiy Ivanovich; KUL'TIASSOV, I.M., red. izd-va;

BAGRAMOVA, A.A., tekhm. red.; RYLHA, Yu.V., tekhm. red.

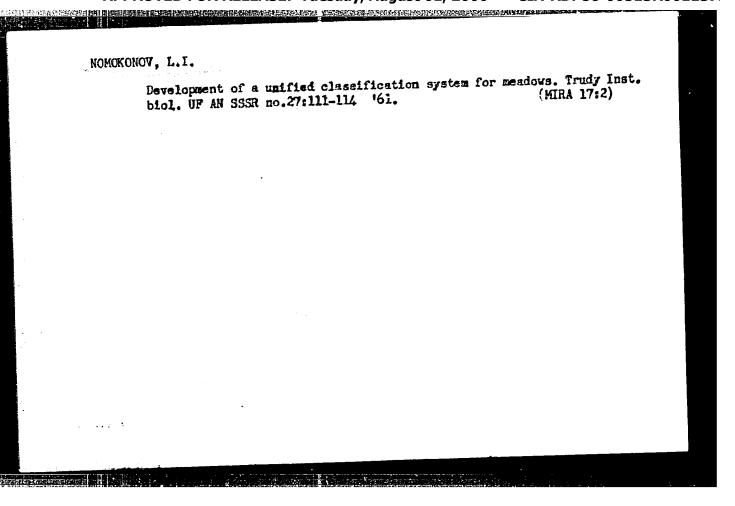
[Floodland meadows of the upper Lena Velley]Poinemnye luga
verkhnego techeniia reki Leny. Moskva, Izd-vo Akad, nauk SSSR,
verkhnego techeniia reki Leny. Moskva, Izd-vo Akad, nauk SSSR,
(MIRA 15:8)
1962. 103 p.

(Lena Valley—Pastures and meadows)

NOMOKONOV, L.I.

Short survey of the flood plain meadows of the Ob' River. Trudy Vost.-Sib.biol.inst.SO AN SSSR no.1:33-60 '62. (MIRA 16:1) (Ob' Valley-Fastures and meadows)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.



NOMOKONOV, L.I. Some methodological problems of biocenology. Izv.SO AN SSSR no. 8. Ser. biol.-med. nauk no.2:34-43 '63. (MIRA 16:11) 1. Vostochno-Sibirskiy biologicheskiy institut, Irkutsk.

NUMERONOV, M.A. SHAMSHEV, F.A.; HOMOKONOV, M.K.; SMIRNOV, F.N.; TARAKAHOV, S.H.; YAKOVLEV, A.M. Theory of vibrational drilling. Rezved.i okn.nedr 23 no.8:18-21 Ag 157 (HIRA 10:11) 1. Leningradskiy gornyy institut imeni G.V.Plekhanova. (Boring)

"APPROVED FOR RELEASE: Tuesday, A	August	01, 2000
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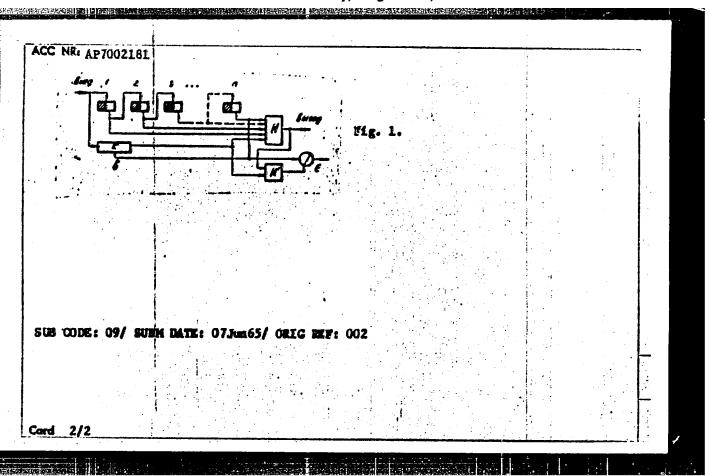
CIA-RDP86-00513R001137

HOMOKONOV, M. E.		is stochastic; that is, relevant theorem and the matrices of the it the fashion of the Franchited by Acad S.	to business the samiliar integral eq $f(x) \neq b$ L/K(x,y)f(y)dy whose kernel K(x,y) (greater than 0) is either symmetric or symmetricizable, as for example the kernel of the correlationial integral eq F(x,y)/F(x) (where F(x). = /F(x,y)dy. The kernel K(x,y) 225750	"The Spectrum of O With Stochastic Ke Wining Inst "Dok Ak Nauk SSSR"	UBSIR.
		tochastic; that is, /k(x,y)dy = 1. Demonstrate a substrate a substrate a substrate a substrate and 3 consequences; in connection attrices of the function f(x) and its derive fashion of the Fredholm and Wronski matrices ditted by Acad S. N. Bernshteyn 28 Mar 52.	Explore the ramiliar integral eq $f(x)$ where $f(x,y)$ is the remarkable of the correlationial integral equiv) $f(x,y)$ (greater than either symmetric or symmetricizable, as for extremel of the correlationial integral equiv) $f(x,y)$ because $f(x)$ in the formula $f(x,y)$ because $f(x)$ is $f(x,y)$.		ussk/Mathematics, -
		stic; that is, theorem and cles of the rion of the ri	the (y)dy symmetric symmet		
		that is, or the of the F. Acad S.	ramillar whose ketric or l of the c	SSR C	ice .
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		K(x,	erne sym corr	LEAN H.	Stochastic
		, /K(x,y)dy = 1. B I consequences, function f(x) and redholm and Wron, N. Bernshteyn 2	integral eq $f(x)$ with the probability of the symmetric leading in the correlation in t	e Class of Integral Equations nel," M. K. Nomokonov, Lening vol LXXXIV, No 3, pp 445-448	
		Trongit	Leq c,y) cciza conia ,y)dy	Nomokonov,	Kerne
		Taw 8	ble, 1 in	kono	4
		Demonstrates in connection its derivs (ki matrices). Mer 52.			22
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	3		(x, x) (x, x) (x, x) (x, x) (x, x) (x, x)		May 52
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

CC NR: AP700218	SOURCE CODE: UR/0146/66/009/006/0140/0144
LUTHOR: No makon	y. V. N.; Yerosh, I. L.
IRG: Leningrad Leningradskiy el	institute of Electrical Engineering im. V. I. Ul yanov (Lanin)
TITLE: Detection	false responses of binary scaling circuits with the aid of
SOURCE: EVUZ.	Priborostroyeniye, v. 9, no. 6, 1966, 140-144
TOPIC TAGS: det	ection, error correction, ELECTRONIC CIRCUIT
	cuit which detects false responses of binary scaling circuits by
application of m selecting the more The scaling circumich detect ern and blocks the fi the errors of the	odulo-checking is described (see Fig. 1). Hethods are described for st effective values of the modulus for detecting false responses. uit consists of the basic and checking counters, AND and NOT circuits over, and an AND circuit, which separates the correct output signal else ones. In operation the counter was capable of detecting all checking counter and most common errors made by the basic and p. Orig. art. has: 1 figure, 10 formulas and 1 table.
application of m selecting the more The scaling circumich detect ern and blocks the fi the errors of the	odulo-checking is described (see Fig. 1). Hethods are described for st effective values of the modulus for detecting false responses. Wit consists of the basic and checking counters, AND and NOT circuits ors, and an AND circuit, which separates the correct output signal also ones. In operation the counter was capable of detecting all the checking counter and most common errors made by the basic and
application of m selecting the more The scaling circumich detect ern and blocks the fi the errors of the	odulo-checking is described (see Fig. 1). Hethods are described for st effective values of the modulus for detecting false responses. Wit consists of the basic and checking counters, AND and NOT circuits ors, and an AND circuit, which separates the correct output signal also ones. In operation the counter was capable of detecting all the checking counter and most common errors made by the basic and
application of m selecting the more The scaling circumich detect ern and blocks the fi the errors of the	odulo-checking is described (see Fig. 1). Hethods are described for st effective values of the modulus for detecting false responses. Wit consists of the basic and checking counters, AND and NOT circuits ors, and an AND circuit, which separates the correct output signal also ones. In operation the counter was capable of detecting all the checking counter and most common errors made by the basic and

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.



ACC NR: AR7004321

SOURCE CODE: UR/0271/66/000/011/B030/B030

AUTHOR: Nomokonov, Y. N.; Tolstyakov, V. S.

TITLE: Enhancing the reliability of binary counter by means of redundant coding

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl tekhn., Abs. 118231

REF SOURCE: Izv. Leningr. elektrotekhn. in-t, ch. 2, vyp. 56, 1966, 89-93

TOPIC TAGS: binary counter, error correcting code, checket agricultural pulse counter, colling, digital decoder, reliability of operation of pulse counters, it is expedient to check their operation by means of correcting (redundant) codes. As the counter has a single-valued relation between its states and its transitions, the check can be performed either by checking the counter proper or by checking the correctness of its transitions provided its correct initial state is known. In the first method (counter states are coded), a short error-detection time comparable to the counter transient time can be ensured only when decoding is performed by parallel half-adders whose great number is determined by the number of check "ones" in the code matrix. The second method (counter transitions are coded) is also considered; it permits a smaller decoding unit as a result of using excess-figit triggers as serial half-adders; the method ansures short time of error detection. One figure. C. V.

[Translation of a stract]

SUB CODE: 09, 14 Card 1/1

UDC: 681.142:621.374.32

ACC NR. AR7004301

SOURCE CODE: UR/0271/66/000/011/A007/A008

AUTHOR: Tolstaykov, V. S.; Nomokonov, V. N.

TITLE: Higher reliability of pulse counters and scalers

SOURCE: Ref. zh. Avtomat. telemekh. i vychiel. tekhn., Abs. 11A59

REF SOURCE: Izv. Leningr. elektrotekhn. in-ta, ch. 2, vyp. 56, 1966, 84-88

TOPIC TAGS: pulse counter, scaler, eccor correcting code

ABSTRACT: The problem of improving reliability of counters and scalers in electronic devices is considered. The probability of false signals is reduced by various means depending on the operating conditions: selected element redundancy, threshold adaption in multichannel systems, functional checks, error-detecting and error-correcting codes. One figure. N. S. [Translation of abstract]

SUB CODE: 09, 12

Card 1/1

NOMOKANOV, V.P.

MOMOKANOV, V. P., GURVICH, I. I., and ROZANOV, I. N.

"High-Frequency Amplifier for Seisnic Prospecting on the Basis of the Amplifier at the Station EKhO-1," Razvedka i Okhrana Medr, No. 7, pp 29-32, 1954

SO: W-31 29, 2 Sep 55

NOMOKONOU, V.P.

112-2-4512

TRANSLATION FROM: Referativnyy zhurnal, Elektrotekhnika, 1957,

Nr 2, p. 292 (USSR)

Nomokonov, V. P., Gil'bershteyn, P. G., Umnov, V. F. AUTHORS: _

СС-26-51Д Station Amplifiers for High Frequency Seismic TITLE: Geophysical Exploration (Usiliteli stantsii SS-26-51 D

dlya vysokochastotnoy seysmorazvedki)

PERIODICAL: V Sb.: Razvedochnaya i promyslovaya geofizika. Nr 15,

Moscow, Gostoptekhizdat, 1956, pp. 81-83.

NACT: Amplifiers of the widely used CC-26-51A stations can be used for high frequency (from 60 to 120 cps and higher) seismic ABSTRACT: geophysical exploration on the condition that the filters and output stages are changed. The converted filter and output stage circuits and their frequency characteristics are given. Low frequency attenuation amounts to 32 to 24 db (instead of 15 to 17 db for stock amplifiers). The redesigned amplifiers can be used even in the 30 to 50 cps frequency range.

V.M.L.

Card 1/1

82921

3,9300

S/169/60/000/006/004/021 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 34, # 5790

AUTHOR:

Nomokonov, V. P.

TITLE:

Grouping the Geophones Separated by Large Distances

PERIODICAL: Tr. Mosk. geol. razved. in-ta, 1959, Vol. 36, pp. 87-95

TEXT: The problem is considered of eliminating irregular disturbances by means of grouping the geophones. To eliminate disturbances, the author recommends to arrange the geophones at larger distances from each other than was usually done up to now when grouping them. Hereby, he pays attention to the fact that the distances between the devices in a group must be less than the maximum admissible distances for attaining suitable superposition of the effective waves, when grouping longitudinally (and over the surface). Formulae are given for determining the maximum admissible distances between the geophones in longitudinal groups; these formulae are derived basing on the theory of directed action for stationary harmonic oscillations.

V. S. Isayev

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

NOMOKONOV, V.P. "Flat front" method. Izv. vys. ucheb. zav.; geol. i razv. 5 no. 8: (MIRA 15:11) 107-113 Ag 162.

1. Moskovskiy geologorasvedochnyy institut im. S.Ordshonikidse. (Seissic prospecting)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

High-frequency seismic station on the basis of a serial SS-2411 station. Razved. 1 prom. geofiz. no.48:45-47 *63 (MIRA 18:1)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

NONORCHIOV, V.P.; TRPLITSKIY, V.A.

Pattern shooting at long bases in the method of reflected waves (plane front method). Prikl. geofiz. no.40:57-76 164 (HIRA 18:1)

LUPANCSOV, V.P.; NONDKOHOV, V.P.; TEPLITSKIY, V.A.

Plotting temporary cross sections based on the data of the "flat front" method. Endved. geofiz. no.3:23-27 *65.

(MINA 18:8)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

GRECHISHNIKOV, G.A.; NOMOKONOV, V.P.

Characteristics of the refracted waves originating in a medium containing vertical teds according to the data of modeling. Izv. vys.ucheb.zav.; geol. 1 razv. 8 no.2:116-122 F *65.

(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel skiy institut geofizicheskikh matedev razvedki i Moskovskiy geologorazvedochnyy institut im. S. (rdzhenikidze.

TEPLITSKIY, V.A., otv. red.; KALMYKOV, G.N., red.; NOMOKONOV, V.F., red.

[Seismic prespecting using the grouping of shots on long bases and the method of central rays; transactions] Seismo-razvedka s primeneniem gruppirovaniia vzryvov na dlinnykh bazakh i sposoba tsentral'nykh luchei; trudy. Moskva, Nedra, 1965. 106 p. (MIRA 18:10)

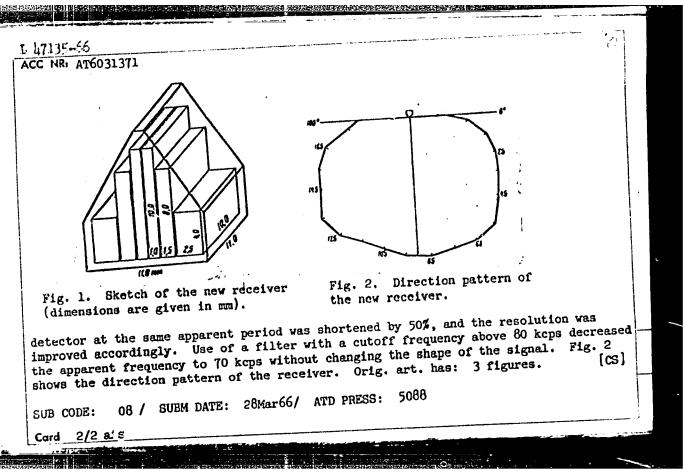
1. Vsesoyuznyy seminar po novoy metodike seysmorazvedki.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.

IJP(c) GD/RH/GW EXIT(1)/EWT(m)/EXIP(j)/T L 47135-66 UR/0000/66/000/000/0062/0064 SOURCE CODE: AT6031371 ACC NRI AUTHOR: Gil'bershteyn, P. G.; Grechishnikov, G. A.; Nomokonov, V. P. ORG: none TITLE: Construction of wide-band transducers for seismic modeling SOURCE: AN SSSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'trazvuka v seysmologii, seysmorazvedke i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Izd-vo Nauka, 1966, 62-64 TOPIC TAGS: acoustic detector, acoustic receiver, seismic modeling, seismology, wide band transducer ABSTRACT: A new type wide-band receiver to be used in seismic modeling is described. plates of different thickness and height, It consists of Rochelle salt each with its own natural frequency, which form a receiver with wider band-frequency characteristics when stacked together. The damping of natural frequencies was accomplished by covering the stack with a 1-2-mm thick layer of transparent epoxy resin. The receiver, shown in Fig. 1, requires no clamp, as the contact is established by a thin layer of vaseline. A pulse transmitted through a brass sheet consisted of a single vibration with an apparent frequency of 100 kcps and a pulse duration of 16 usec. Compared to the older-type receivers, the total pulse duration of the new

i Pair to provide the

Card 1/2



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001137

RM/GW/GD EWT(1)/EWT(m)/EWP(5)/I L h7136-66 SOURCE CODE: UR/0000/66/000/000/0051/0058 ACC NRI AT6031370 16 Grechishnikov, G. A.; Nomokonov, V. P.; Sharov, V. I. \mathcal{B} +IORG: none TITLE: Characteristics of seismic waves refracted on curvilinear interfaces SOURCE: AN SSSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'trazvuka v seysmologii, seysmorazvedke i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Izd-vo Nauka, 1966, 51-58 TOPIC TAGS: seismic wave refraction, cruvilinear interface, seismic wave model, refracted wave, travel time curve ABSTRACT: A seismic-wave modeling experiment is described in which the physical nature and characteristics of waves refracted on the curvilinear surface of a homogeneous basement of infinite thickness are studied. The modeling was carried out on an installation consisting of pulse seismoscope, piezoelectric transducers, and photo-

graphic attachments. The seismoscope was specially designed in the Moscow Geological Prospecting Institute imeni S. Ordzhonikidze. The 10 x 10-mm transducers consisted of Rochelle salt plates treated with MBK-1 compound. The media models were made of plexiglass and duralum sheets having thicknesses of 3 and 1.5 mm. The plexiglass simulated the overburden, while the duralum simulated the lower refracting medium.

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ACC NR: AT6031370

Longitudinal wave velocities were 2300 m/sec ($\lambda_0=4.6$ cm) in the plexiglass and 5200 m/sec ($\lambda_1=10.4$ cm) in the duralum. The experiments showed that the first arrivals above and beyond the sectors with the curvilinear refracting boundary were those of refracted-diffracted waves and not head waves. In previous model experiments of this type it had been assumed that the waves recorded on the surface were head waves arising as a result of the propagation of the refracted wave along the curvilinear surface. Interpretation of the travel-time curves of the first arrivals recorded in the sectors with a curvilinear refracting boundary by means of existing methods invariably results in errors because of the formation of travel-time curve loops and penetration into the refracting medium. The amplitude curves of the refracted waves in the case of a curvilinear refracting boundary are characterized by a high degree of dissection. Amplitude variations are caused by interference waves arriving from various sectors of the boundary and by the energy distribution along the refracted-diffracted wave fronts. Orig. art. has: 6 figures. [DM]

SUB CODE: 08/ SUBM DATE: 28Mar66/ ORIG REF: 008/ ATD PRESS: 5088

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ACC NR. AT6028968

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SOURCE CODE: UR/0000/65/000/000/0075/0083

AUTHOR: Lupanosov, V. P.; Nomokonov, V. P.; Ogorodnikov, V. V.; Teplitskiy, V. A.

ORG: State Geological Committee of Industrial Production, TSSR (Gosudarstvennyy proizvodstvennyy geologicheskiy komitet TSSR); Moscow Geological Prospecting Institute im. S. Ordzhonikidze (Moskovskiy geologorazvedochnyy institut)

TITLE: Results of applying the plane wave-front method in eastern Turkmenia

SOURCE: Vsesoyuznyy seminar po novoy metodike seysmorazvedki. Seysmorazvedka s primeneniyem gruppirovaniya vzryvov na dlinnykn bazakn i sposoba tsentral nykh luchey (Seismic prospecting using the grouping of shots on long bases and the method of central rays); trudy seminara. Moscow, Izd-vo Nedra, 1965, 75-83

TOPIC TAGS: seismic prospecting, seismic wave, underground explosion, seismography

ABSTRACT: The investigations conducted using the plane wave-front method (SPF) during 1959—1963 by the Amu-Darya Geophysical Expedition are described. This work was done in areas with complex surface and

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subsurface seismological conditions. SPF was used successfully in areas lacking data from reflected waves, i.e., clear reflections and even diffracted waves formed in fault zones were obtained. The results of using SPF in fault zones were confirmed by deep drilling. Recording of reflections was performed not only within the limits of the generation profile but outside and perpendicular to the terminal sources. This made it possible to analyze boundaries with angles of inclination of 5—10° and get additional criteria for the formation of diffracted waves. Orig. art. has: 6 figures.

SUB CODE: 08/ SUBM DATE: 30Apr65/

Cord 2 2

SOURCE CODE: UR/0000/65/000/000/0026/0036 AT6028963 ACC NRI

AUTHOR: Nomokonov, V. P.; Teplitskiy, V. A.

ORG: Moscow Geological Prospecting Institute im. S. Ordzhqnikidze (Moskovskiy geologorazvedochnyy institut); All-Union Scientific Research Institute of Petroleum Geological Prospecting (Vsesoyuznyy nauchnoissledovatel'skiy geologorazvedochnyy neftyanoy institut)

Theoretical basis of shot grouping on long spreads ("plane TITLE: wave-front" method)

SOURCE: Vsesoyuznyy seminar po novoy metodike seysmorazvedki. Seysmorazvedka s primeneniyem gruppirovaniya vzryvov na dlimnýkh bazakh 1 sposoba tsentral nykh luchey (Seismic prospecting using the grouping of shots on long bases and the method of central rays); trudy seminara. Moscow, Izd-vo Nedra, 1965, 26-36

TOPIC TAGS: underground explosion, geologic exploration, seismic boundary, travel time curve, seismic prospecting, seismic wave-

ABSTRACT: Basic principles and formulas of the theory of travel-time curves of reflected waves are presented for the case of a continuous linear source. An analysis is made of the generation source and geophone spread parameters. The relationship between generation and

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ACC NR: AT6028963

reception zones is investigated for various angles of reflecting boundaries. The ratio of reflection amplitude to noise amplitude of surface waves obtained from experiments within the shot spread is determined to be 1.4 times greater than that outside the spread. Grouping of shots in long spreads may be used for studying fractures by separation of the composite reflected and diffracted waves according to the shape and relationship of the cophasal axis. Composite diffracted waves registered near the fracture are found to be the least distorted. An analysis is made of the methods of compilation and interpretations of time sections from seismograms obtained from tapes. The possibility of combining the plane wave-front method with regulated directional reception and the method of reflected waves was considered for various geological environments. Orig. art. has: 15 formulas and 3 figures.

SUB CODE: 08/ SUBM DATE: 30Apr65/ ORIG REF: 012/ OTH REF: 006

NOMOKONOVA, L.M.; SHAPIRO, B.I.

Epiphysis and subcommissural organ of some vertebrates. Arkh. anat., gist. 1 embr. 48 no.2:36-44 F 65. (MIRA 18:8)

1. Laboratoriya sravnitel'noy fiziologii tsentral'noy nervnoy sistemy (zav. - chlen korrespondent AN ArmSSR i A.I.Karamyan) Instituta evolutsionnoy fiziologii imeni I.M.Sechenova AN SSSR, Leningrad.

TKALICH, S.M.; MINEYEV, I.K., glavnyy red.; RYABENKO, V.Ye., zam. glavnogo red.; TUMOL'SKIY, L.M., zam. glavnogo red.; KUR'YANOV, F.K., otv. zav vypusk; BASSOLITSYN, Ye.P., red.; BLINNIKOV, I.I., red.; DAUKSHO, Yu.Ye., red.; DZINKAS, Yu.K., red.; ZHARKOV, M.A., red.; ZAVALISHIN, M.A., red.; MANDEL'BAUM, M.M., red.; MATS, V.D., red.; MALETOV, P.I. red.; NOMOKONOVA, N., red.; NOSEK, A.V., red.; SERD, A.I., red.; SEMENYUK, V.D., red.; TAYEVSKIY, V.M., red.; TIKHONOV, V.L., red.; TROFIMUK, I.N., red.; TOMILOVSKAYA, M.V., red.; FOMIN, N.I., red.; SHAMES, P.I., red.; TROSHANIN, Ye.I., tekhn. red.

[Biogeochemical anomalies and their interpretation.] Biogeokhimicheskie anomalii i ikh interpretatsiia. Irkutsk, 1961. 39 p. (Materialy po geologii i poleznym iskopaemym Irkutskoi oblasti no.3). (MIRA 17:1)

SOV/137-58-9-20302

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 312 (USSR)

Nomokonova, N.A., Morozova, I.F. AUTHORS:

Spectroscopic Methods for the Determination of Niobium, TITLE:

Tantalum, Zirconium, Titanium, Beryllium, and Indium (Spektral'nyye metody opredeleniya niobiya, tantala, tsirko-

niya, titana, berilliya i indiya)

Tr. Vses.Magadansk. n.-i. in-ta-I M-va tsvetn. metallurgii PERIODICAL:

SSSR, 1957, division 4, Nr 19, pp 14-20

Quantitative spectroscopic methods for the determination of In, Be, and Ti were developed, and the methods for the deter-ABSTRACT:

mination of Nb, Ta, and Zr in ores and the products of their processing were modified. The determinations were carried out according to the method of three standard specimens. Ores with a known content of components were used as standard specimens. Curves were plotted with $\Delta S - log_{10}C$ coordinates. For the determination of Nb, Ta, Ti, and Zr the test sample was mixed with carbon powder (1:1) and introduced into a

carbon electrode (E) with a pointed portion 2.6 mm in diameter

and 12 mm long, the crater being 1.3 mm in diameter and 5 mm Card 1/2

SOV/137-58-9-20302

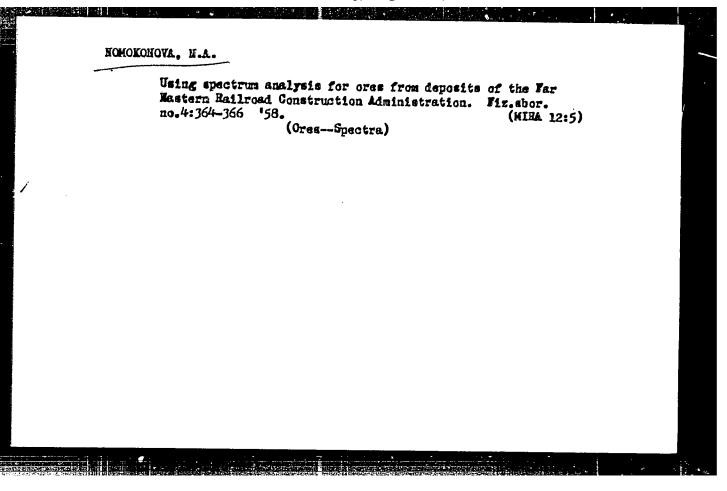
Spectroscopic Methods for the Determination (cont.)

deep. The exposure time was 2-3 min with 15 sec of preliminary sparking with a 9.5-amp current. Mo served as the internal standard. The determination of Be and In was carried out by the introduction of 100-200 mg of specimen mixed with the internal standard on paper strips between horizontal carbon E's. The E's were ground into the shape of a cone with a stage area of 3 mm. Cr serves as the internal standard in the determination of Be; for the determination of In, depending on the contents of Sn in the specimen, Cd or Bi are used. The ranges of the determinations are (in %): In and Be 0.001-1, Ta and Ti 0.05-2, Nb 0.03-1, Zr 0.12-2. The error of the method is (in %): for Nb, In, Ta \pm 8, Zr \pm 4 to 8, for Be \pm 5, and for Ti \pm 10.

B.M.

1. Metals -- Determination 2. Spectroscopy

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LYALIKOV, K.S.; PETRUSHKINA, Z.L.; NOMOKONOVA, V.F.; RASTORGUYEV, N.G.

Dark discoloration of infrared sensitizers. Zhur. nauch. i prikl. fot. i kin. 6 no. 3:178-185 My '61. (MIRA 14:5)

1. Laboratoriya aerometodov AN SSSR. (Photography—Films)

LYALIKOV, K.S.; PETRUSHKINA, Z.L.; NOMOKOHOVA, V.F.

Comparing the resolving power and the sharpness of two films for aerial photography. Zhur nauch i prikl. fot i kin. 6 no.6: 418-420 N-D '61. (MIRA 15:1)

 Laboratoriya aerometodov AN SSSR. (Photography, Aerial—Equipment and supplies)

NONAY, EXCERPTA WEDICA Sec.12 Vol.9/11 Ophthalmology Nov55 1840. NONAY T. 2. Univ. - Augenklin., Budapest. * Kataraktoperationen an primar glaukomatosen Augen. Cataract surgery in eyes with chronic glaucoma KLIN, MBL. AUGENHEILK, 1953, 123/3 (257-267) Tables Evaluation of 69 (out of a total of 4,459) cataract operations in eyes which had chronic glaucoma: The glaucoma existed in 27 cases more than 8 yr., in 32 cases more than 2 yr. If the tension of the glaucomatous eye could be reduced to the limit of 36 mm. Hg by miotics, the primary cataract extraction was performed; otherwise an antiglaucomatous operation was performed first; the cataract extraction followed 3-6 months later. Prior to the cataract surgery a careful cardiovascular checkup was routinely carried out in order to detect and treat disorders which could lead to haemorrhages. The section for the cataract surgery was performed on the superior half of the limbus without consideration of pre-existing filtering scars. According to the author's experience this did not cause increased tension postoperatively. A sclero-conjunctival suture for the wound closure and total iridectomy was routinely performed. In all cases intracapsular lens extraction was performed and succeeded in 72% of the cases. In 37 cases in which the tension was held at 36 mm. Hg or under with miotics pre-operatively the successful primary intracapsular extraction (in 34 cases) resulted in normalization of the tension but the author does not state how long these eyes were followed up postoperatively. Deliaporta - Bullalo, N.Y.

HOMAY, Tibor.; STMRMRMRG, R..; KORNEL, ALICH.; KORNEL, Alice.

Surgery of vertical muscles of the eye. Szemeszet 91 no.4: 145-150
Nov 54.

1. A budapesti Orvostudomanyi Egyetem II. sz. Szemklinikajanak
kozlemenye (Igazgato: Monay Tibor egyetemi tanar, az
orvostudomanyok kandidatusa)
(MUSCLES, OCULOMOTOR, surgery,
vertical musc.)

HONAY, Tibor,; STERHENRG, Alice, R.,; RAAB, Kornel.

Surgery of the vertical oculomotor nuscles; II. part.

Szemeszet 92 no.4:150-164 Dec 55.

1. A Budapesti Orvostudomanyi Egyetem II. Szemklinikajanak koslemenye Igazgato; Honay Tibor egyetemi tanar, az orvostudomanyok kandidatusa.

(MUSCLES, OCULOMOTOR, paralysis

of vertical, surg., technic & results (Hun))

(STRARISMIS, surg.

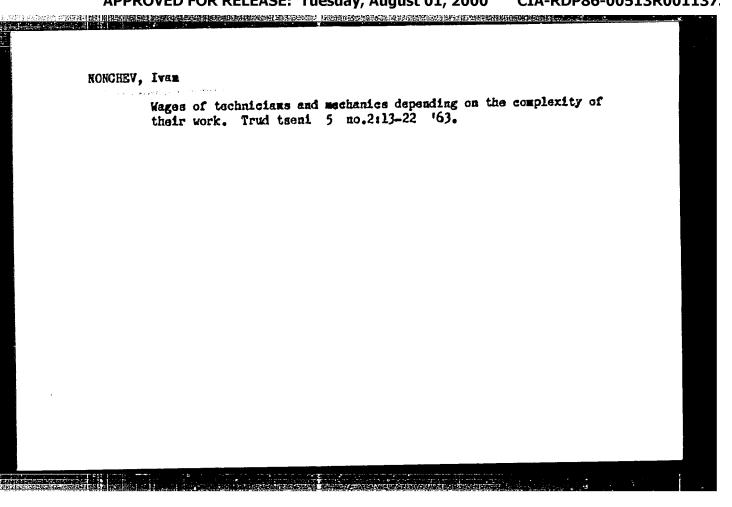
vertical strabismus, technic & results (Hun))

NONAI, Tibor, dr.; BOHAR, Anna, dr.

Significance of changes in the fundus oculi in toxoplasmosis. Orv.
hetil. 102 no.32:1511-1512 6 Ag '61.

1. Budapesti Orvostudomanyi Egyeten, II.Szenklinika.

(10XOPLASMOSIS diag) (FUNDUS OCULI)



LYAKHOVICH, V.V.; NONESHNIKOVA, V.I.; CHERVINSKAYA, A.D.; ROZANOV, K.I.

Characteristics of the distribution of accessory minerals in altered granitoids. Krat. soob. IMCRE no.1:30-32 '60.

Accessory minerals in granitoids of the Ural Mountains. Ibid.:33-34 '60. (HIRA 17:3)

LYAKHOVICH, V.V.; MOMESHNIKOVA, V.I.

Accessory minerals in granite intrusions of western Tuva and vein rocks associated with them. Trudy IMCRE no.7:182-211 '61. (MIRA 16:11)

LYAKHOVICH, V.V.; MONESHNIKOVA, V.I.; CHERVINSKAYA, A.D.

Some data on accessory minerals of granitoids. Trudy Inst. mih., geokhim. i kristallokhim. red. elsm. no. 3:104-126 '59.

(Minerals) (Granite)

NONESHNIKOVA. VI.

PLACE I DOOR EXPLOIMATION

EJ7/5740

Akademiya nauk SSSR. Institut minoralogii, geothimii i kristellokhimii redhiki elementov

Voprosy mineralogii, gookhimii i genezisa mestorozhdeniy redhikh elementov (Problems in Mineralogy, Geochemistry, and Deposit Formation of Rare Elements) Mescow, Izd-wo AM SSER, 1950. 253 p. (Series: Its: Trudy, vyp. b) Errata printed on the inside of back cover. 2,200 copies printed.

Chief Ed.: K. A. Vlasov, Corresponding Hamber, Academy of Sciences USCR; Resp. Ed.: V. V. Lyakhovich; Ed. of Publishing House: L. S. Tarmsov; Tech. Ed.: P. S. Kachina.

MUNCOSE: This book is intended for geologists, mimrelogists, and patrographers.

COVERAGE: This is a collection of 25 articles on the formation, geology, miroralogy, patrography, and geochemistry of deposits of rare elements in Siberia and [Seviet] Central Acia. The distribution and characteristics of rare elements found in these areas as well as some quantitative and qualitative methods of investigating the rocks and minorals in which they are found,

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	or with which they are essociated, are discussed. Two articles prost investigation of the possibilities of industrial extraction and utili celenium, tellurium, and hafaium. He personalities are mentioned. It is accompanied by references.	المالمالية	÷
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